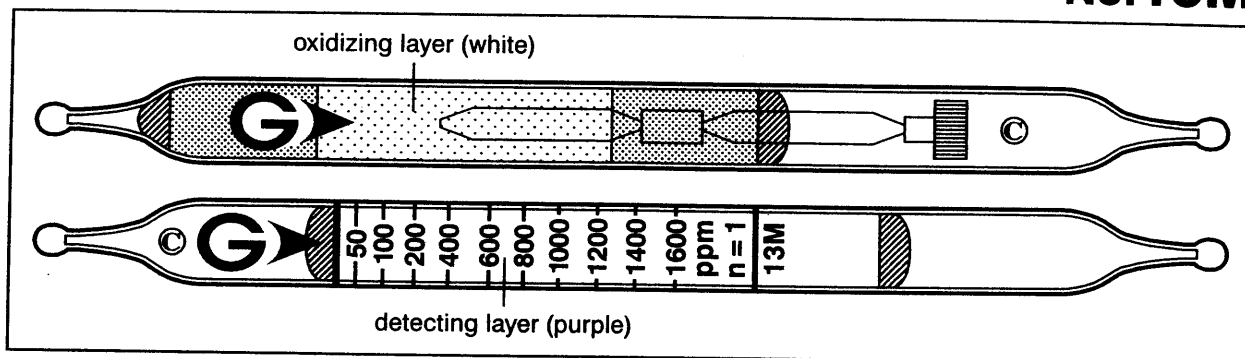


# Carbon Disulfide CS<sub>2</sub>

No. 13M



When used, these tubes are to be connected. See page 2-3.

Measuring range	20 to 50 ppm	50 to 1600 ppm	1600 to 4000 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.4	1	2.5
Sampling time	2 minutes per 1 pump stroke (100 ml)		

Detecting limit : 10 ppm (2 pump strokes)

Color change : Purple → Yellow

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 50 to 400 ppm), 5 % (for 400 to 1600 ppm)

Shelf life : 3 years

Pretreatment tube :  $\text{CS}_2 + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{SO}_2 + \text{CO}_2$

Detector tube :  $\text{SO}_2 + \text{BaCl}_2 + \text{H}_2\text{O} \rightarrow \text{BaSO}_3 + 2\text{HCl}$

$\text{HCl} + \text{Base} \rightarrow \text{Chloride}$

(NOTE : Page 2-5)

Substance	Concentration	Interference	Changes color by itself to
Hydrocarbons (lower class)	> 1000 ppm	+	} Yellow
Hydrogen sulfide		+	
Sulfur dioxide		+	

Up to 1000 ppm of lower class hydrocarbons are trapped in the white layer in the pretreatment tube.

Diffusion tube method